

Application No. 09/520,435
Amendment date: 11/18/2005
Reply to Office Communication of 09/23/2005

AMENDMENTS TO THE CLAIMS

1. (Previously Presented) A method in a computer system for transferring a compressed data file from a software application running within the computer system to a printer in communication with the computer system, said method comprising:

receiving a request to transfer a compressed data file to the printer from the software application;

determining whether the printer is configured to decompress the compressed data file;

if the printer is configured to decompress the compressed data file, obtaining the compressed data file from the software application; and

transferring the data file to the printer via a device driver interface, wherein said transferring includes performing coordinate transformations to the data file.

2. (Previously Presented) The method as recited in claim 1, wherein said receiving a request to transfer a compressed data file includes receiving a data structure from the software application, the data structure containing an indication of a classification of the compressed data file format and a pointer to the compressed data file.

3. (Previously Presented) The method as recited in claim 1, wherein said determining whether the printer is configured to decompress the compressed data file further comprises:

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obtaining a device file decompression configuration data structure, the data structure containing data indicative of compressed data file formats supported by the printer; and

determining whether the file decompression configuration data structure indicates whether the printer is configured to decompress the compressed data file.

4. (Previously Presented) The method as recited in claim 3, wherein said determining whether the file decompression configuration data structure indicates whether the printer is configured to decompress the compressed data file includes:

passing a compressed data file pointer to the printer; and
receiving an indication whether the printer is configured to decompress the compressed data file.

5. (Cancelled) ~~The method as recited in claim 1, wherein said transferring includes performing coordinate transformations to the data file.~~

6. (Previously Presented) The method as recited in claim 1, wherein said transferring includes performing file processing to the data file.

7. (Original) The method as recited in claim 1, wherein the compressed data file is a compressed data image.

8. (Original) The method as recited in claim 7, wherein the compressed data image file is a JPEG image.

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9. (Original) The method as recited in claim 7, wherein the compressed data image file is a PNG image.

10. (Previously Presented) The method as recited in claim 1 further comprising receiving an uncompressed data file from the software application if the printer is not configured to receive the compressed data file.

11. (Previously Presented) One or more computer-readable media having computer-readable instructions for performing the method recited in claim 1.

12. (Previously Presented) A computer system having a memory, an operating system and a central processor being operable to execute the method recited in claim 1.

13. (Previously Presented) One or more computer-readable media having computer-executable components comprising:

(a) a device support query component for determining whether a printer is configured to decompress a compressed data file associated with an application;

(b) an application interface component for receiving the compressed data file from the application; and

(c) a device interface component for transferring the compressed data file to the printer, wherein said transferring includes performing coordinate transformations to the data file.

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14. (Previously Presented) The media of claim 13, wherein said application interface component includes a compressed data file information transformation component for manipulating data within the compressed data file.

15. (Previously Presented) A method in a computer system for transferring a compressed data image file from a software application running within the computer system to a printer in communication with the computer system, said method comprising:

receiving a file query from the software application, the file query containing a pointer to a compressed data image file and a designation of a type of compressed data image file;

comparing the designation of compressed data image file with a data structure containing data indicative of types of compressed data image files supported by the printer;

if the printer supports the compressed data image file format, passing a pointer to the compressed data image file and the designation of a type of compressed data image file to query for to the printer;

if the printer is configured to decompress the compressed data file, returning an answer;

obtaining a data structure having data indicative of the compressed data image file from the software application; and

upon obtaining the data structure, transferring the data image file to the printer via a device driver interface, wherein said transferring includes performing coordinate transformations to the data file.

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16. (Previously Cancelled) ~~The method as recited in claim 15, wherein said transferring includes performing coordinate transformations to the data image file~~

17. (Previously Presented) The method as recited in claim 15, wherein said transferring includes performing image processing to the data image file.

18. (Previously Presented) The method as recited in claim 15, wherein said transferring includes passing the transferred compressed image file in a data structure.

19. (Original) The method as recited in claim 15, wherein the compressed data image file is a JPEG compressed data image file.

20. (Original) The method as recited in claim 15, wherein the compressed data image file is a PNG compressed data image file.

21. (Previously Presented) The method as recited in claim 15, further comprising returning a negative answer and receiving an uncompressed data image file from the software application if the printer is not configured to receive the compressed data image file.

22. (Previously Presented) One or more computer-readable media having computer-readable instructions for performing the method recited in claim 15.

23. (Previously Presented) A computer system having a memory, an operating system and a central processor being operable to execute the method recited in claim 15.

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24. (Original) The method as recited in claim 15, wherein the file query, the query response and the file transfer are facilitated by a graphics driver interface and a hardware device driver.

25. (Previously Presented) The method as recited in claim 24, wherein said device driver is a printer driver.

26. (Previously Presented) A method in a computer system for transferring a compressed data file from a software application running within the computer system to a printer in communication with the computer system, said method comprising:

requesting a determination whether the printer is configured to decompress the compressed data file;

receiving a response whether the printer is so configured; and

if the printer is configured to decompress the compressed data file, transferring the compressed data file to the printer, wherein said transferring includes performing coordinate transformations to the data file.

27. (Previously Presented) The method as recited in claim 26, wherein said requesting includes passing a pointer to the compressed data file and an indication of a type of compressed data file to the computer system.

28. (Previously Presented) The method as recited in claim 26, wherein said transferring includes passing the compressed data file to the printer via a data structure.

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29. (Previously Presented) The method as recited in claim 26 further comprising decompressing the compressed data file and transferring the uncompressed data file to the printer if the printer is not configured to decompress the compressed data file.

30. (Original) The method as recited in claim 26, wherein the compressed data file is a compressed data image file.

31. (Original) The method as recited in claim 30, wherein the compressed data image file is a JPEG compressed data image file.

32. (Original) The method as recited in claim 30, wherein the compressed data image file is a PNG compressed data image file.

33. (Previously Presented) One or more computer-readable media having computer-readable instructions for performing the method recited in claim 26.

34. (Previously Presented) A computer system having a memory, an operating system, and a central processor being operable to execute the method recited in claim 26.

35. (Previously Presented) One or more computer-readable media having stored thereon a data structure, comprising:

- (a) a first field containing data indicating a classification of a compressed data file;
- (b) a second field containing data indicative of a property of the compressed data file; and

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(c) a third field containing data indicative of whether a printer is configured to decompress the compressed data file and, if so, to transfer the data file, wherein transfer of the data file includes performing coordinate transformations to the data file.

36. (Original) The data structure recited in claim 35, wherein the first field includes data indicating an escape function identifying the classification of the compressed data file.

37. (Original) The data structure recited in claim 35, wherein the first field includes a numeral identifying the classification of the compressed data file.

38. (Original) The data structure recited in claim 35, wherein the second field includes a pointer to a compressed data file stored in a memory.

39. (Original) The data structure recited in claim 35, wherein the second field includes an address to a compressed data file.

40. (Original) The data structure recited in claim 35, wherein the second field includes a copy of the compressed data file.

41. (Previously Presented) The data structure recited in claim 35, wherein the third field includes a numeral indicative of whether the printer is configured to decompress the compressed data file.

42. (Previously Presented) The data structure recited in claim 35, wherein the compressed data file is a compressed data image file.

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43. (Original) The data structure recited in claim 42, wherein the compressed data image file is a JPEG compressed data image file.

44. (Original) The data structure recited in claim 42, wherein the compressed data image file is a PNG compressed data image file.

45. (Previously Presented) A method in a computer system for rendering a compressed data file on a printer in communication with a computer system, said method comprising:

receiving a request to send a compressed data file to the printer;

determining whether the printer is configured to decompress the compressed data file; and

if the printer is configured to decompress the compressed data file, sending the compressed data file to the printer, whereby the printer can render the compressed data file, and wherein said sending includes performing coordinate transformations to the data file; but

if the printer is not configured to decompress the compressed data file, then uncompressing the compressed data file and sending the uncompressed data file to the printer.

46. (Previously Presented) The method as recited in claim 45, wherein receiving said request includes receiving a data structure from the software application, the data structure containing an indication of a type of the compressed data file format and a pointer to the compressed data file.

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47. (Previously Presented) The method as recited in claim 46, wherein said determining whether the printer is configured to decompress the compressed data file further comprises:

obtaining a decompressing-configuration data structure, the data structure containing data indicative of compressed-data-file formats supported by the printer; and

determining whether the file decompressing-configuration data structure indicates whether the printer is configured to decompress the compressed data file.

48. (Previously Presented) The method of claim 45, wherein said printer includes a rendering device.

49-53. (Cancelled)